

MAR 15 2007

SMART & BIGGAR*Intellectual Property & Technology Law***To Fax no.:** (571) 273-8300P.O. Box 2999, Station D
55 Metcalfe Street, Suite 900
Ottawa, Canada K1P 5Y6**Page 1 of:** 20**Attention:** Group Art Unit 2616
Examiner Jason E. MattisTel.: (613) 232-2486
Fax: (613) 232-8440**From:** SMART & BIGGAR**Your file no.:** 10/038,915**Date:** March 15, 2007**Reply to Ottawa file no.:** 71493-1044 /jas**Time:****Certificate of Transmission**I hereby certify that this correspondence is being facsimile
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R. Allan Brett (Reg. No. 40,476)

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MAR 15 2007

AMENDMENT TRANSMITTAL LETTER (Large Entity)				Docket No. 71493-1044 /jas	
Applicant(s): MA, Jiauglei et al.					
Application No. 10/038,915	Filing Date January 8, 2002	Examiner MATTIS, Jason E.	Customer No. 07380	Group Art Unit 2616	Confirmation No. 1308
Invention: SYSTEM ACCESS AND SYNCHRONIZATION METHODS FOR MIMO OFDM COMMUNICATIONS SYSTEMS AND PHYSICAL LAYER PACKET AND PREAMBLE DESIGN					
COMMISSIONER FOR PATENTS:					
Transmitted herewith is an amendment in the above-identified application.					
The fee has been calculated and is transmitted as shown below.					
CLAIMS AS AMENDED					
	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST # PREV. PAID FOR	NUMBER EXTRA CLAIMS PRESENT	RATE	ADDITIONAL FEE
TOTAL CLAIMS	25 -	56 =	0	x \$50.00	\$0.00
INDEP. CLAIMS	3 -	8 =	0	x \$200.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0.00
<input checked="" type="checkbox"/> No additional fee is required for amendment. <input type="checkbox"/> Please charge Deposit Account No. _____ in the amount of _____ <input type="checkbox"/> A check in the amount of _____ to cover the filing fee is enclosed. <input checked="" type="checkbox"/> The Director is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account 19-2550 <input checked="" type="checkbox"/> Any additional filing fees required under 37 C.F.R. 1.16. <input checked="" type="checkbox"/> Any patent application processing fees under 37 CFR 1.17. <input type="checkbox"/> Payment by credit card. Form PTO-2038.					
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
 Signature			Dated: March 15, 2007		
R. Allan Brett Registration No. 40,476 Customer No. 07380			I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on _____ (Date)		
Tel. No. (613) 232-2486 CC:			Signature of Person Mailing Correspondence Typed or Printed Name of Person Mailing Correspondence		

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OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JUNE 13, 2001

PTAS



101660357A

COBRIN & GITTES
LAWRENCE E. RUSS
750 LEXINGTON AVE
NEW YORK, NY 10022**UNITED STATES PATENT AND TRADEMARK OFFICE**
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/28/2001

REEL/FRAME: 011654/0130
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MA, JIANGLEI

DOC DATE: 03/26/2001

ASSIGNOR:
TONG, WEN

DOC DATE: 03/24/2001

ASSIGNOR:
WU, SHIQUAN

DOC DATE: 03/23/2001

ASSIGNEE:
NORTEL NETWORKS LIMITED
380 ST. ANTOINE STREET WEST
WORLD TRADE CENTER OF MONTREAL,
8TH FLOOR
MONTREAL, QUEBEC H2Y 3Y4, CANADASERIAL NUMBER: 09819957
PATENT NUMBER:FILING DATE:
ISSUE DATE:

011654/0130 PAGE 2

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

Patent/Docket No. NTL-3.2.145/3519 (12818ROUS02U)

ASSIGNMENT

WHEREAS, the undersigned inventor, hereinafter called the "Assignor", has invented a new and useful invention entitled:

**PREAMBLE DESIGN FOR MULTIPLE INPUT-MULTIPLE OUTPUT (MIMO),
ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) SYSTEM**

For which reference a full description is here made in an application for Letters Patent of the United States filed on December 29, 2000 as United States Application No. 09/751,879.

WHEREAS, NORTEL NETWORKS LIMITED, a Canadian company having a principal office and place of business at, World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor, Montreal, Quebec H2Y 3Y4, Canada hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby acknowledge my prior existing obligation and hereby sell, assign, and transfer to Assignee its successors and assigns, the entire right, title, and interest in the application and invention therein disclosed for the United States and foreign countries, to and under the said improvements, and the said application and all provisional, divisional, substitution, continuation applications thereof, and all Letters Patent of the United States which may be granted thereof and all renewals, reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all renewals, reissues and extensions thereof; and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the Assignee, its successors and assigns; and we hereby agree that the Assignee may apply for foreign Letters Patent on the invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by the Assignee.

FURTHER, the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for

reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

Dated: Mar. 26. 2001

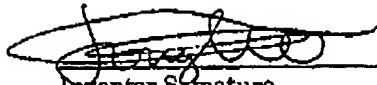
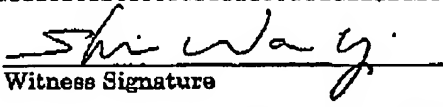
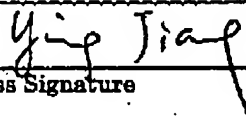
Jianglei Ma
Inventor Signature

Inventor Name: JIANGLEI MA
Residence Address: 2-2082 Westbury Road
Ottawa, Ontario K2C 1G8, Canada

Dated: March 26. 2001

Wei-gang L.
Witness Signature

Witness Name: 51 Paula Cre. Nepean
Residence Address: K2H 3Y8 Canada

Dated: March 24, 2001
Inventor SignatureInventor Name: WEN TONG
Residence Address: #808-1000 Castle Hill Crest.
Ottawa, Ontario, K2C 8L7, CanadaDated: March 26, 2001
Witness SignatureWitness Name: WAN YI SHIU
Residence Address: 52 DEERCHASE CRT.,
KANATA, ONTARIO
K2M 2R1Dated: March 23, 2001
Inventor SignatureInventor Name: SHIQUAN WU
Residence Address: 108-C Craig Henry Dr.
Nepean, Ontario K2G 6L8, CanadaDated: March 23, 2001
Witness SignatureWitness Name: Ying Jiang
Residence Address:
108-C Craig Henry Dr.
Nepean Ontario K2G 6L8, Canada



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JUNE 07, 2002

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SMART & BIGGAR
R. ALLAN BRETT
900-55 METCALFE STREET
OTTAWA, ONTARIO CANADA K1P 5Y6



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RECORDATION DATE: 04/05/2002 ✓

REEL/FRAME: 012773/0956
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MA, JIANGLEI ✓

DOC DATE: 03/07/2002 ✓

ASSIGNOR:
JIA, MING ✓

DOC DATE: 03/07/2002 ✓

ASSIGNOR:
ZHU, PEIYING ✓

DOC DATE: 03/07/2002 ✓

ASSIGNOR:
TONG, WEN ✓

DOC DATE: 03/07/2002 ✓

ASSIGNEE:
NORTEL NETWORKS LIMITED
2351 BOULEVARD ALFRED-NOBEL
ST. LAURENT, QUEBEC, CANADA H4S 2A9 ✓

SERIAL NUMBER: 10038915 ✓
PATENT NUMBER:

FILING DATE: 01/08/2002 ✓
ISSUE DATE:

ALA

012773/0956 PAGE 2

SAUNDRA BALLENGER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

P. 19/20
MAR 15 2007

Pocket No.: 71493-1044/pw

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Patent and Trademark OfficeFORM PTO-1585 (Modified)
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P08A/REV03

06-07-2002



102112113

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To the Honorable Commissioner of Patents and Trademarks, Please allow me attached original documents or copy thereof.

1. Name of conveying party(ies):
JIANGLEI MA; MING JIA; PEIYING ZHU and
WEN TONG

4.5.02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: March 7, 2002

2. Name and address of receiving party(ies):

Name: NORTEL NETWORKS LIMITED

Address: 2351 Boulevard Alfred-Nobel

City: St. Laurent State/Prov.: Quebec

Country: Canada ZIP: H4S 2A9

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

10/038,915

01/08/02

B. Patent No.(s)

04/10/2002 TD1021 00000109 10038915

01 FC:581

40.00 DP

Additional numbers

☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: R. Allan Brett

Registration No. 40476

Address: SMART & BIGGAR

P.O. Box 2999, Station D

900-55 Metcalfe Street

City: Ottawa State/Prov.: Ontario

Country: Canada ZIP: K1P 5Y6

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy
of the original document.

R. Allan Brett (Reg. No. 40476)

Name of Person Signing

Signature

April 4, 2002

Date

2

Total number of pages including cover sheet, attachments, and

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Washington, D.C. 20231

71493-1044 /pw

**ASSIGNMENT
NORTEL NETWORKS LIMITED**

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whose address is:
NORTEL NETWORKS LIMITED
2351 Boulevard Alfred-Nobel
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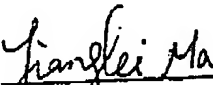
**SYSTEM ACCESS AND SYNCHRONIZATION METHODS FOR
MIMO OFDM COMMUNICATIONS SYSTEMS AND PHYSICAL LAYER
PACKET AND PREAMBLE DESIGN**

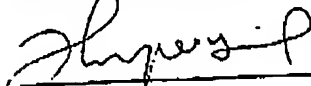
set forth in an application for letters patent of the UNITED STATES OF AMERICA


Serial No. 10/038,915, filed on January 8, 2002


and all rights and privileges under any and all letters patent that may be granted for said inventions.

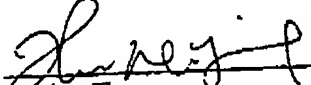

Witness' Signature
MING JIA
Witness' Name (print)

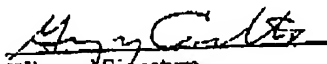

Date: March 7, 2002
Assignor
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3 Bon Echo Cres.
Kanata, Ontario, Canada K2M 2W5

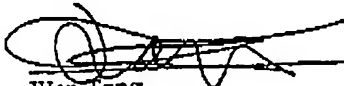

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Witness' Name (print)


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609 - 320 Croydon Ave.
Ottawa, Ontario, Canada K2B 5P3


Witness' Signature
MING JIA
Witness' Name (print)


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Witness' Signature
GREGORY CARLETON
Witness' Name (print)


Date: March 7, 2002
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